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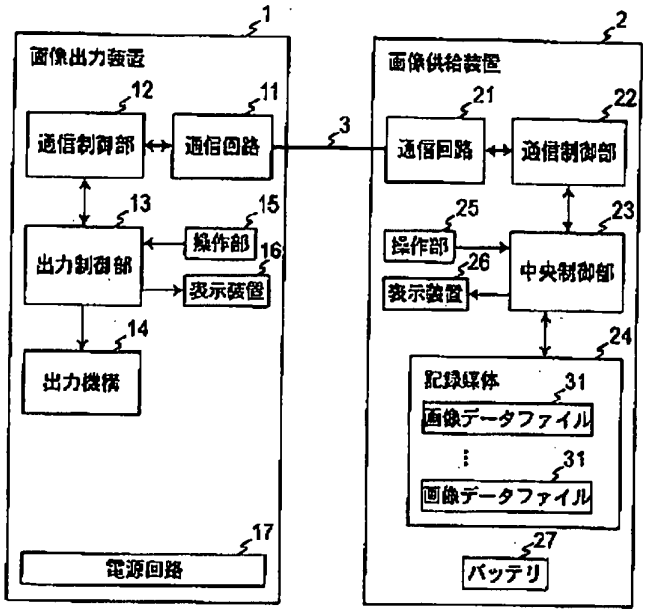
Fig. 1



1: image output device
2: image supply device
11: communicator
12: communication controller
13: output controller
14: output mechanism
15: control panel
16: display
17: power supply
21: communicator
22: communication controller
23: central controller
24: storage medium
25: control panel
26: display
27: battery
31: image data file

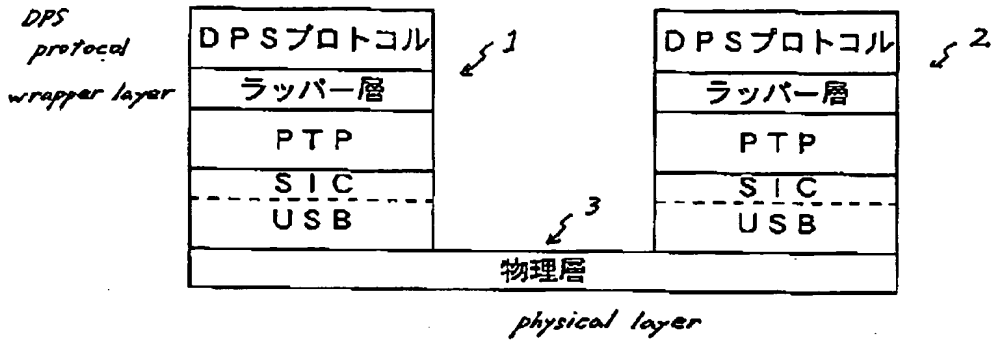
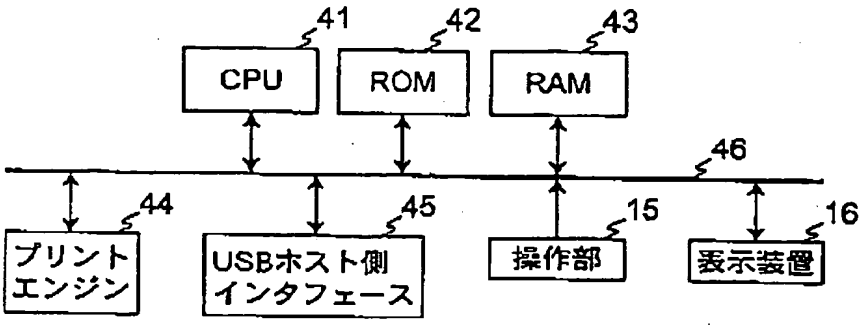

DPS
protocol
wrapper layer
DPSプロトコル
ラッパー層
PTP
SIC
USB
1
DPSプロトコル
ラッパー層
PTP
SIC
USB
2
3
物理層
physical layer

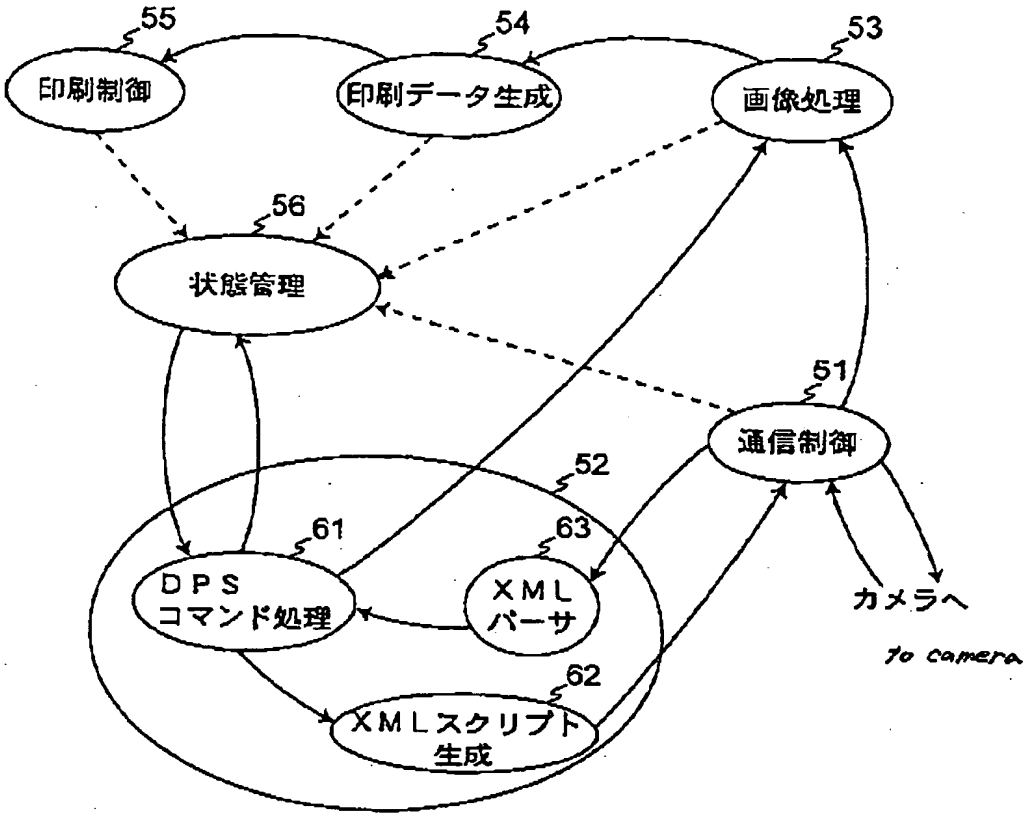
Fig. 2

Fig. 3



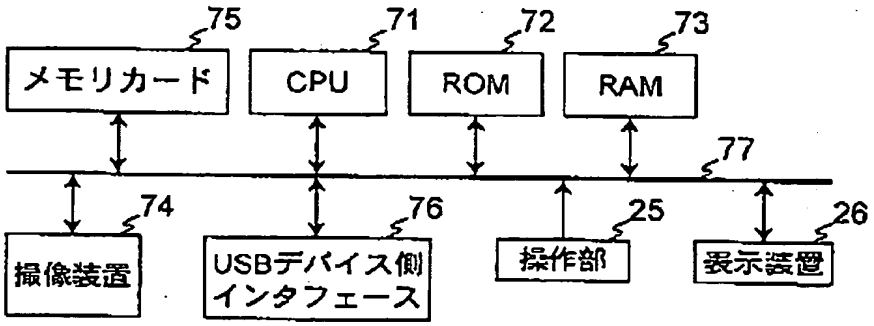
15: control panel
16: display
44: print engine
45: USB host interface

Fig. 4



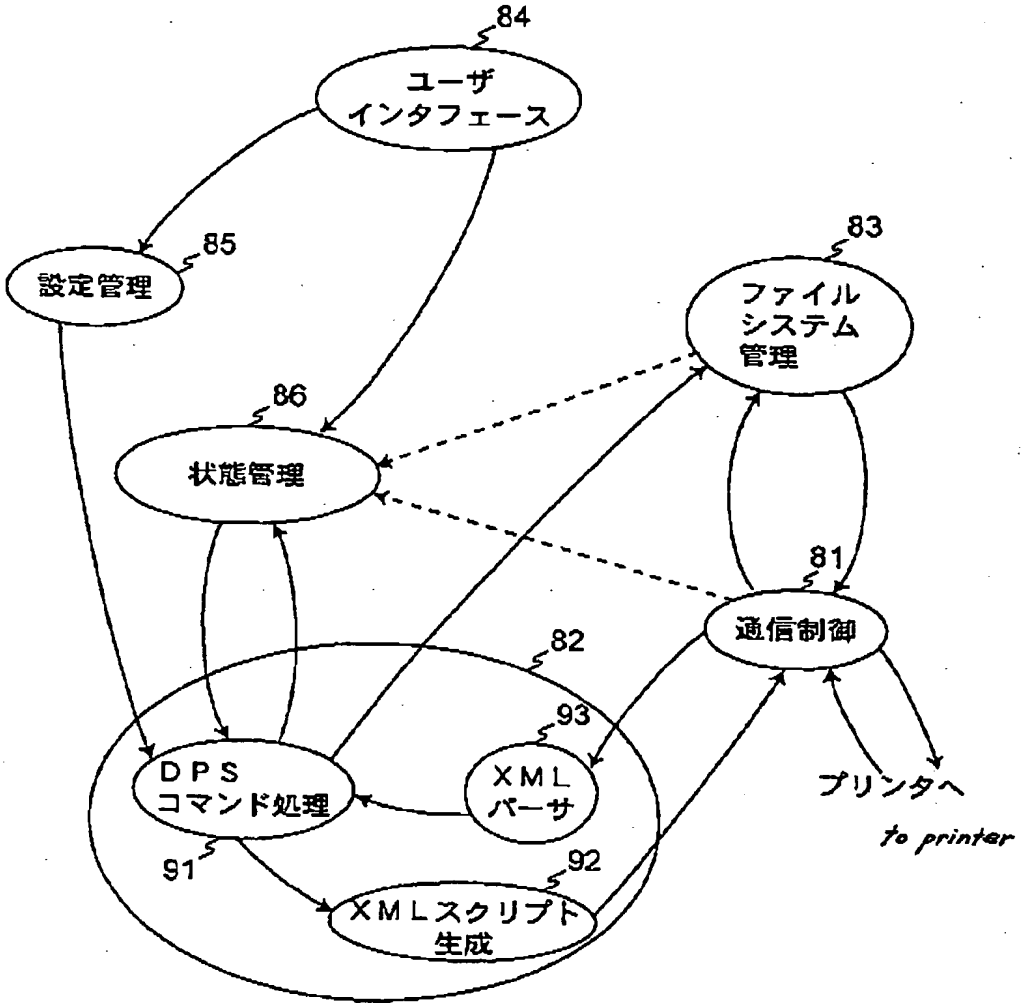
51: communication control
52: DPS protocol processing
53: image processing
54: image data generation
55: print control
56: status management
61: DPS command processing
62: XML script generation
63: XML parser

Fig. 5

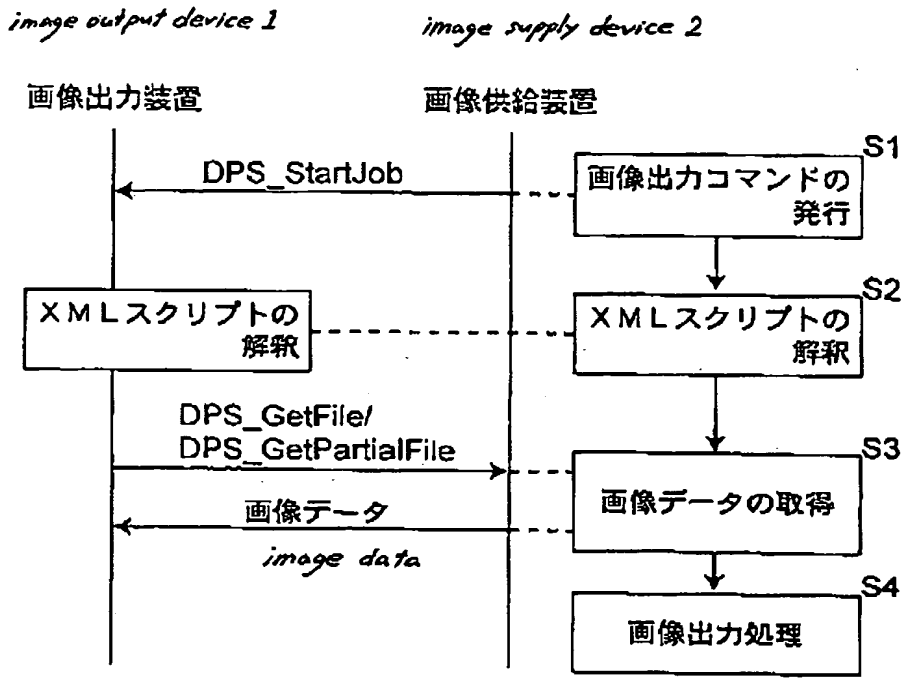


25: control panel
26: display
74: imaging device
75: memory card
76: USB device interface

Fig. 6



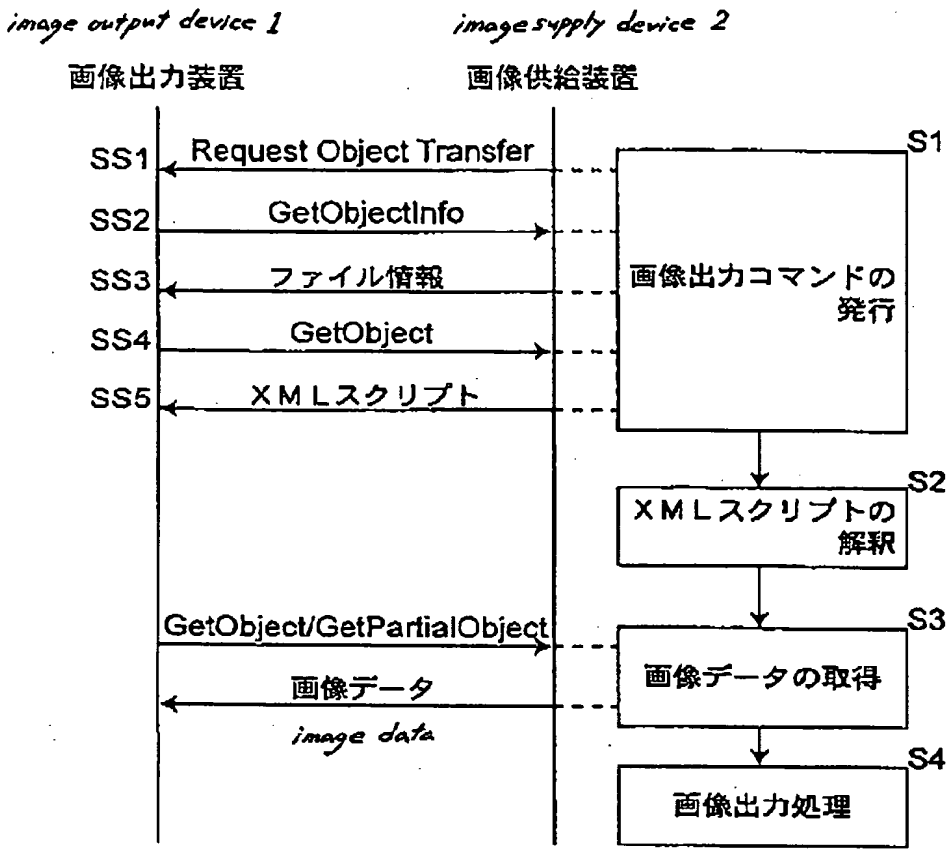
81: communication control
82: DPS protocol processing
83: file system management
84: user interface
85: setting management
86: status management
91: DPS command processing
92: XML script generation
93: XML parser



S1: transmit image output command
S2: interpret XML script
S3: acquire image data
S4: image output processing

Fig. 7

Fig. 8



S1: transmit image output command
S2: interpret XML script
S3: acquire image data
S4: image output processing
SS3: file information
SS5: XML script

Fig. 9

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
 <startJobRequest>
  <job>
   <jobConfig>
    <quality>01000000</quality>
    <paperSize>02010000</paperSize>
    <paperType>03020000</paperType>
    <fileType>04150000</fileType>
    <date>05010000</date>
    <fileName>06000000</fileName>
    <imageOptimize>07000000</imageOptimize>
    <layoutItem>08010000</layoutItem>
   </jobConfig>
   <printInfo>
    <image>
     <imageID>00000001</imageID>
     <imageDate>2002/05/30</imageDate>
    </image>
   </printInfo>
  </job>
 </startJobRequest>
</dps>
```

Fig. 10

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
 <getFileRequest>
  <fileID>00000001</fileID>
  <buffPtr>00100000</buffPtr>
 </getFileRequest>
</dps>
```

Fig. 11

preset number	contrast	brightness	color balance	saturation	sharpness	memorized color	noise removal	suitable scene
1	normal	normal	normal	normal	normal	off	off	normal
2	slight soft	slight bright	normal	slight low	slight weak	flesh	off	portrait
3	slight hard	normal	normal	slight high	slight strong	sky & green	off	landscape
4	normal	dark	off	normal	slight weak	green	on	evening
5	normal	dark	off	normal	normal	off	on	nightview
6	slight soft	slight bright	weak	slight high	normal	red	off	flower
7	normal	normal	weak	normal	strong	off	off	macro
8	hard	normal	normal	slight high	strong	off	off	sports
9	slight soft	bright	normal	normal	normal	off	off	backlight
10	normal	normal	normal	high	slight strong	red	off	red leaves
11	normal	slight bright	normal	normal	slight strong	flesh	off	memorial

Fig. 12

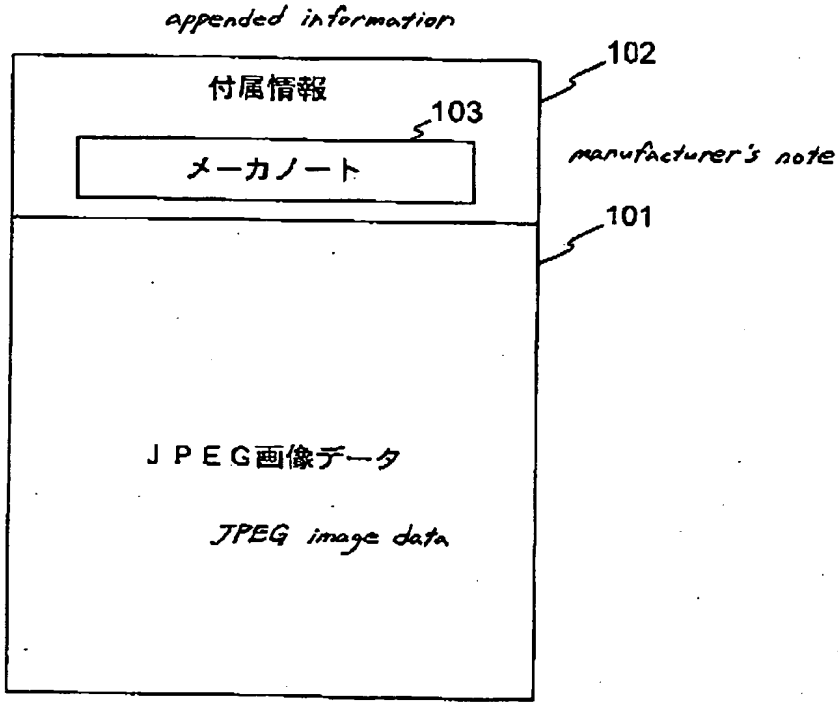

appended information
付属情報
102
103
メーカノート
manufacturer's note
101
ＪＰＥＧ画像データ
JPEG image data

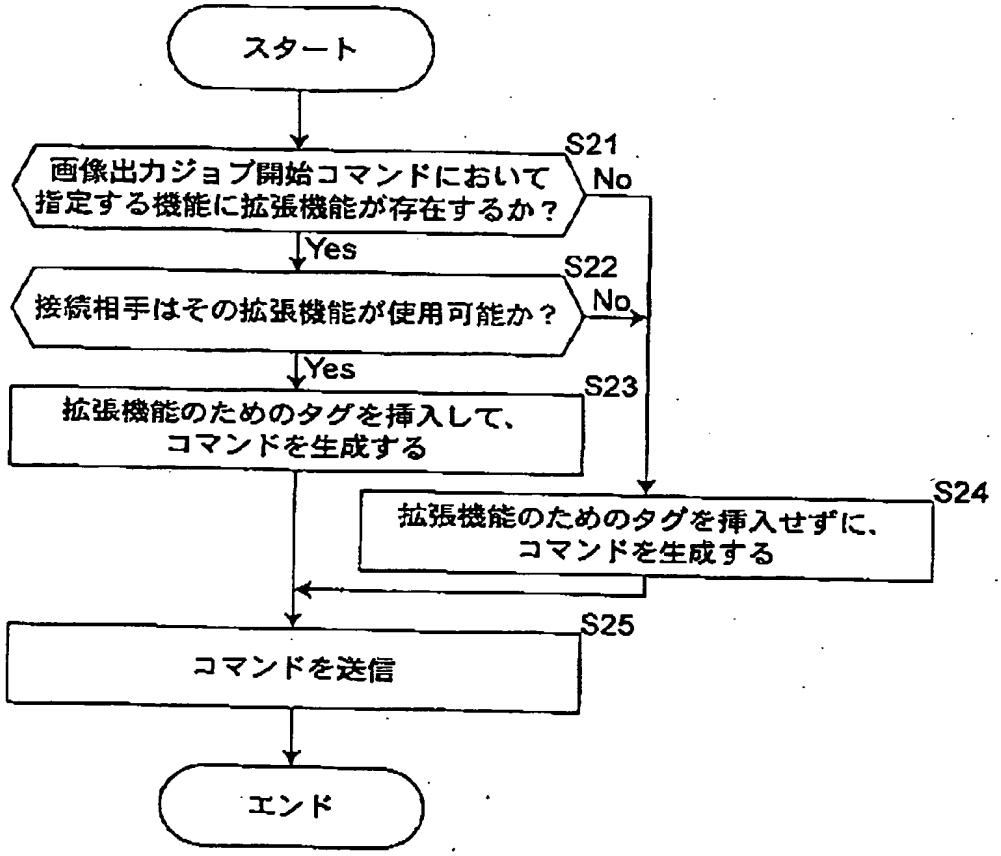
Fig. 13

offset	data
0	manufacturer name
6	reserved
8	entry number N of local tag
10	first local tag
22	print matching
...	...
10+12(N-1)	N-th local tag

Fig. 14

offset	data
0	print matching identifier
8	PIM version information
12	reserved
14	entry number n of parameter setting
16	1st parameter number
18	1st parameter setting value
22	2nd parameter number
24	2nd parameter setting value
28	3rd parameter number
30	3rd parameter setting value
...	...
16+6(n-1)	n-th parameter number
18+6(n-1)	n-th parameter setting value

Fig. 15



start

S21: extended function exists in function specified by job start command for image output?

S22: mating device is able to use extended function?

S23: generate command with tag for extended function

S24: generate command without tag for extended function

S25: transmit command

end

Fig. 16

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
 <startJobRequest>
  <job>
   <jobConfig>
    <quality>01000000</quality>
    <paperSize>02010000</paperSize>
    <paperType>03020000</paperType>
    <fileType>04150000</fileType>
    <date>05010000</date>
    <fileName>06000000</fileName>
    <imageOptimize>
     07000000
     <imageOptimize2>
      08000000
     </imageOptimize2>
    </imageOptimize>
    <layoutItem>08010000</layoutItem>
   </jobConfig>
   <printInfo>
    <image>
     <imageID>00000001</imageID>
     <imageDate>2002/05/30</imageDate>
    </image>
   </printInfo>
  </job>
 </startJobRequest>
</dps>
```

Fig. 17

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
 <startJobRequest>
  <job>
   <jobConfig>
    <quality>01000000</quality>
    <paperSize>02010000</paperSize>
    <paperType>03020000</paperType>
    <fileType>04150000</fileType>
    <date>05010000</date>
    <fileName>06000000</fileName>
    <imageOptimize>07000000</imageOptimize>
    <layoutItem>08010000</layoutItem>
   </jobConfig>
   <printInfo>
    <image>
     <imageID>00000001</imageID>
     <imageDate>2002/05/30</imageDate>
     <imageOptimize2>
      08000000
     </imageOptimize2>
    </image>
   </printInfo>
  </job>
 </startJobRequest>
</dps>
```

Fig. 18

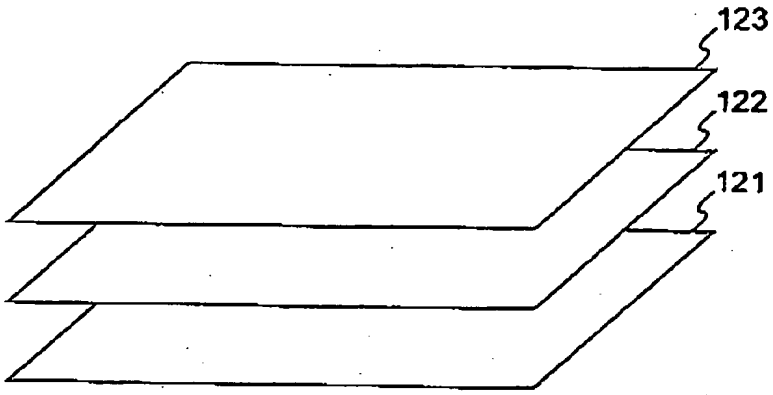


Fig. 19

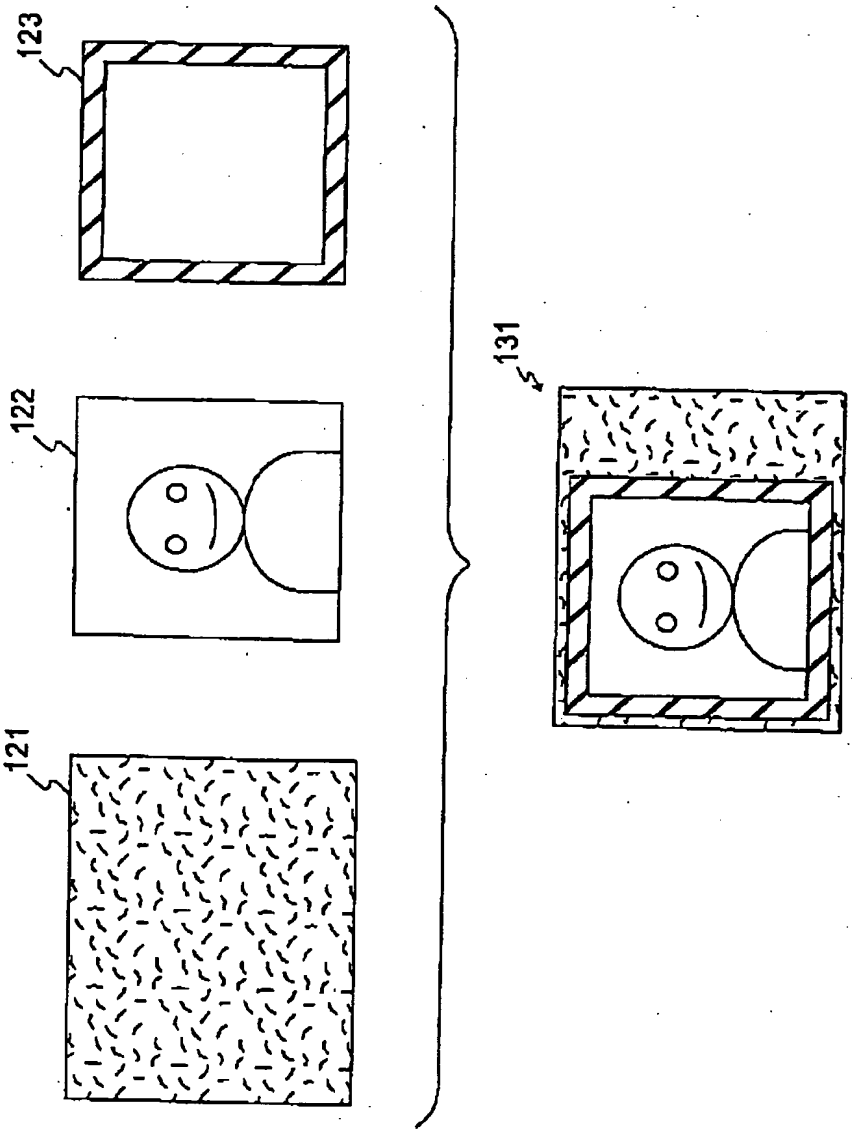


Fig. 20

```
[HEADER]
HdRevision = 02.00
HdAuthor = "xxxx"
HdCopyright = "xxxx"
HdChangeFlag = Possible
HdKeyWord = "Christmas", "Greeting"
HdTitle= "SAMPLE"
HdComment ="SAMPLE"
HdDirection = Vertical
HDSound = "..EPUDL/GSOUND.PCM"
HdCapacity = 1024000
HdThumbnail = "..EPUDL/IMAGE/001UDL.USF"
HdPhysicalPaperSize = R89
HdMargines = 3,3,3,3

[PAGE]
Draw Picture("",1,50,100,1500,1200,4,0,5)
Draw Picture("..EPUDL/IMAGE/001.EFF",0,10,20,100,200,0,1,4)
Draw Strings("..EPUDL/IMAGE/001.EFF",0,"%G,%d,%y",
100,200,200,300,"Mincho",0,128,128,128)

Draw Line( 10, 20, 10,200,5,255,0,0)
Draw Line(100, 20,100,200,5,255,0,0)
Draw Line( 10, 20,100, 20,5,255,0,0)
Draw Line( 10,200,100,200,5,255,0,0)
```

Fig. 21

```
<?xml version="1.0"?>
<DPS xmlns="http://dps.org/version">
 <startJobRequest>
  <job>
   <capability name="Standard">
    <qualities>01000000</qualities>
    <paperSizes>
     <paperSizesItems>02010000</paperSizesItems>
     <paperSizeLink>00000010</paperSizeLink>
    </paperSizes>
    <paperTypes>03020000</paperTypes>
    <imageType>04000000</imageType>
    <dates>05010000</dates>
    <fileName>06000000</fileName>
    <imageOptimize>07000000</imageOptimize>
    <layout>
     <layoutItems>08010000</layoutItems>
     <layoutLink>00000011</layoutLink>
    </layout>
   </capability>
  </job>
  <printInfo>
   <image>
    <imageID>00000001</imageID>
    <imageDate>2002/05/30</imageDate>
    <imageLink>00000012</ImageLink>
   </image>
  </printInfo>
 </startJobRequest>
</DPS>
```